ZyXEL

ZyXEL green

www.zyxel.com/green

- Dual-mode VDSL2/ADSL2+ functionality
- Dedicated Gigabit Ethernet port for combo WAN connectivity
- 300 Mbps Wireless N function built in
- Dual IPv6 / IPv4 routing supports multiple networks
- IP QoS support
- Remote provisioning and management through TR-069

VSG1432

802.11n Wireless VDSL2 Combo WAN Gateway

High-speed VDSL2 Combo-WAN Gateway for IPTV and Data Services

Benefits

Dual-mode VDSL2/ADSL2+ functionality

Offering dual-mode VDSL2 and ADSL2+ functionality in one gateway, the VSG1432 covers modern and legacy copper networks. Dual-mode VDSL2/ADSL2+ detects the line's DSL configuration and adapts to the provisioned service mode automatically. With this compatibility, service providers can use a VSG1432 whether for short–range, high-speed VDSL, or for longer-range ADSL deployment anywhere within service range. Standardizing on a single gateway significantly saves on OPEX costs incurred when managing many different devices.

Dedicated Gigabit Ethernet port for combo WAN connectivity

ZyXEL's VSG1432 includes a dedicated Gigabit Ethernet WAN port for Fiber and Wireless deployments to the home. When a service provider migrates from DSL to PON or 4G, installers can use a single gateway for both legacy and new network types while existing subscribers can keep an already setup VSG1432, simply switching from the DSL WAN port to the Ethernet WAN port and a Fiber or Wireless bridge. All other features work regardless of network type including remote management, QoS, and home network connectivity.

802.11n technology for extreme performance and coverage

Featuring 802.11n Wi-Fi technology, ZyXEL's VSG1432 provides the ultimate solution for wireless speed and coverage. With data rates up to 300 Mbps, the VSG1432 provides stable and reliable wireless connections for high speed data and multimedia delivery. It eliminates dead zones and extends coverage with IEEE standard 802.11n technology while fully backwards compatible with any IEEE 802.11b/g Wi-Fi certified device.

IPv6 Enabled

The VSG1432 leverages ZyXEL's many years of global IPv6 support in its products which include numerous IPv6 Logo Ready certified devices. With support for IPv6/IPv4 Dual Stack and IPv6 Rapid Deployment (RD), the VSG1432 is well prepared to aid in North American carrier network migrations to IPv4/IPv6. Selecting ZyXEL's VSG1432 ensures your network readiness for years and years to come.

Quality of Service (QoS)

With IP QoS features in the VSG1432, service providers can freely design QoS policies to ensure smooth delivery of mission-critical services including IPTV and VoIP. This increases network efficiency, reduces customer churn, and improves satisfaction with enhanced services offered to high-speed internet access customers.

TR-069 remote management

The VSG1432 works with TR-069 standard management specifications, allowing service providers to manage and configure their devices remotely without an end-user's manual intervention. This feature offers users a truly "Plug and Play" experience, reduces deployment complexity, and saves service providers' operational, support, and maintenance costs.

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Specifications

System Specifications

VDSL Compliance

- ITU.T G.993.2 VDSL2 (Profile: Up to 17a support with 100 Mbps/45 Mbps downstream/upstream rate)
- Dual latency
- INP value up to 16
- PhyR PHY Level Retransmission Technology

ADSL Compliance

- G.992.1 (G.dmt), G.992.2 (G.lite), G.992.3 (ADSL2), G.992.5 (ADSL2+) compliant, Annex A, L and M
- ADSL physical connection ATM AAL5 (ATM Adaptation Layer type 5)
- Support multi-protocol over AAL5 (RFC2684/1483)

IEEE 802.11n Compliance

- Frequency: 2.4 GHz
- Data rate: 300 Mbps
- Backward compatible to 802.11b/g
- 64/128 bits WEP data encryption
- WPA/WPA2 (Wi-Fi Protected Access) Security
- WPS (Wireless Protected Setup)
- WDS (Wireless Distribution System)

USB

- File sharing
- Printing server support

Router

- IPv6 / IPv4 Dual Stack
- IPv6 Rapid Deployment (RD)
- NAT (includes multi-to-multi NAT)/SUA
- Dynamic DNS
- DHCP client/server/relay with DHCP option 60
- PPPoE, PPPoA
- RIP I/RIP II
- IGMP v1, v2, v3
- IGMP Proxy, Snooping
- UPnP

Firewall/Security

- Stateful Packet Inspection (SPI)
- Denial of Service (DoS) Prevention
- Multiple VPN (IPSec, PPTP) pass-through
- Packet Filtering
- URL keyword blocking
- Parental Control

QoS

- Support flexible packet classification
- Support Tag Processing (802.1p/802.1q, DSCP)
- Priority Queuing and Scheduling

Management

- Embedded web configuration
- TR-069, TR-098 remote management
- TR-064 local management
- Logs and statistics
- Command Line Interpreter (CLI) via Telnet

Hardware Specifications

- WAN:
  - One RJ-11 port for VDSL2/ADSL2+ over POTS
  - One RJ-45 port for Gigabit Ethernet, 10/100/1000Base-T
- LAN:
  - Four RJ-45 ports for Fast Ethernet, 10/100Base-T
- Wireless LAN: One external 2 dBi antenna and one internal 2 dBi antenna
- USB: One type-A USB connector for USB 2.0 host interface
- WLAN/WPS button: One push button for WLAN on-off and WPS configuration
- Reset: Recessed push button (reset & factory default)
- Status LEDs indicator: POWER, ETHERNET, ETHERNET WAN, USB, DSL, INTERNET, WLAN/WPS
- Power input: 12 V DC 1.5 A

Physical Specifications

- Item weight: 1.02 lb (460 g)
- Item dimensions:
  1.57" (W) x 6.06" (D) x 8.27" (H) inches
  (40 (W) x 154 (D) x 210 (H) mm)
- Item and package weight: 2.08 lb (941 g)
- Package dimensions:
  2.6" (W) x 8.86" (D) x 10.63" (H) inches
  (66 (W) x 225 (D) x 270 (H) mm)

Environmental Specifications

Operating Environment

- Temperature: 32°F ~ 104°F (0°C ~ 40°C)
- Humidity: 20% ~ 85% RH (non-condensing)

Storage Environment

- Temperature: -4°F ~ 140°F (-20°C ~ 60°C)
- Humidity: 20% ~ 90% RH (non-condensing)

Certification

EMC

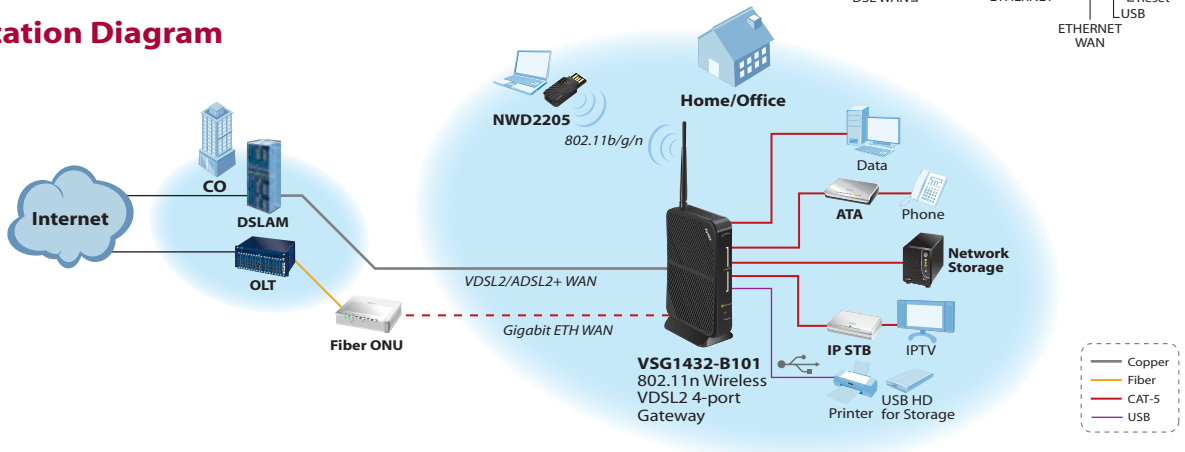
- FCC Part 15 (Class B)

Safety

- UL 60950-1

Rear Panel

Application Diagram



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